

Comparisons of Job Characteristics

Focus Occupation: [Forensic Science Technicians \(19-4092\)](#)

Associated Occupation: [Chemistry Teachers, Postsecondary \(25-1052\)](#)

[Compare Knowledge](#)

[Compare Skills](#)

[Compare Abilities](#)

[Compare Detailed Work Activities](#)

[Compare Tools and Technologies](#)

<<	Focus occupation element is much lower
<	Focus occupation element is lower
0	Focus occupation element is at a similar level
>	Focus occupation element is at a higher level
>>	Focus occupation element is at a much higher level

Knowledge

Similarity of Focus Occupation to Associated Occupation: 59

Focus Occupation: Forensic Science Technicians (19-4092)
Associated Occupation: Chemistry Teachers, Postsecondary (25-1052)

Associated Occupation's Key Knowledge Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating		Evaluation of Focus Occupation
Chemistry	4.8	24.8	13.1	<<	Extensive education and/or training may be required
Education and Training	9.2	20.7	12.0	<<	Extensive education and/or training may be required
English Language	11.2	18.1	15.0	<	Expanded education and/or training may be required
Mathematics	9.2	17.8	10.0	<<	Extensive education and/or training may be required
Physics	4.3	15.7	6.9	<<	Extensive education and/or training may be required
Biology	3.7	12.9	9.3	<<	Extensive education and/or training may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Skills

Similarity of Focus Occupation to Associated Occupation: 88

Focus Occupation: Forensic Science Technicians (19-4092)
Associated Occupation: Chemistry Teachers, Postsecondary (25-1052)

Associated Occupation's Key Skills Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating		Evaluation of Focus Occupation
Reading Comprehension	10.7	18.5	13.1	<<	Extensive development of skills in this area may be required
Speaking	10.8	18.5	13.6	<<	Extensive development of skills in this area may be required
Instructing	7.8	15.4	10.6	<<	Extensive development of skills in this area may be required
Writing	9.2	14.9	13.5	<	A higher skill level may be required

Science	4.5	14.1	9.8	<<	Extensive development of skills in this area may be required
Learning Strategies	7.2	13.8	8.5	<<	Extensive development of skills in this area may be required
Active Learning	8.7	13.1	11.2	<	A higher skill level may be required
Judgment and Decision Making	9.4	12.6	10.1	<	A higher skill level may be required
Complex Problem Solving	9.1	12.3	12.6	0	Current skill level may be sufficient

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Abilities		Similarity of Focus Occupation to Associated Occupation: 76			
Focus Occupation: Forensic Science Technicians (19-4092) Associated Occupation: Chemistry Teachers, Postsecondary (25-1052)					
Associated Occupation's Key Abilities Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation	
Oral Expression	12.4	19.4	14.4	<<	Extensive improvement in abilities may be required
Oral Comprehension	12.5	18.3	14.9	<<	Extensive improvement in abilities may be required
Written Comprehension	11.0	17.3	14.1	<	Some improvement in abilities may be required
Written Expression	9.8	16.6	12.8	<<	Extensive improvement in abilities may be required
Speech Clarity	10.2	15.9	11.5	<<	Extensive improvement in abilities may be required
Deductive Reasoning	10.6	14.1	15.1	0	Current ability level may be sufficient
Inductive Reasoning	10.2	13.3	14.3	0	Current ability level may be sufficient
Memorization	5.6	8.3	6.4	<	Some improvement in abilities may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Activities that Both Occupations Have in Common		Similarity of Focus Occupation to Associated Occupation: 84
Focus Occupation: Forensic Science Technicians (19-4092) Associated Occupation: Chemistry Teachers, Postsecondary (25-1052)		
Work Activities	Exclusivity of Activity	
Adhere to safety procedures	12	
Advise governmental or industrial personnel	28	
Analyze chemical experimental, test, or analysis data or findings	69	
Conduct laboratory research or experiments	57	
Conduct standardized qualitative laboratory analyses	62	
Conduct standardized quantitative laboratory analyses	62	

Understand properties of gases or liquids	78
Use chemical testing or analysis procedures	54
Use hazardous materials information	35
Use interpersonal communication techniques	10
Use knowledge of metric system	39
Use oral or written communication techniques	1
Use quantitative research methods	35
Use scientific research methodology	21

Not all positions in these occupations will necessarily perform all of the listed activities. The exclusivity rating is an indication of how unique the activity is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations engage in that activity.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Tools and Technologies that Both Occupations Have in Common

Similarity of Focus
Occupation to Associated
Occupation: n/a

Focus Occupation: Forensic Science Technicians (19-4092)
Associated Occupation: Chemistry Teachers, Postsecondary (25-1052)

Tools and Technologies

Exclusivity

Tools and technology data is unavailable for one or both occupations.

Not all positions in these occupations will necessarily use all of the listed tools and technologies. The exclusivity rating is an indication of how unique the tool or technology is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations use that tool or technology.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.